

Amendments to the Claims

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

Claim 1 (Canceled)

Claim 2 (Currently amended): Shadow mask material comprising carbon equal to or less than 0.0008 wt%, silicon equal to or less than 0.03 wt%, manganese from 0.1 to 0.5 wt%, phosphorus equal to or less than 0.02 wt% sulfur equal to or less than 0.02 wt%, aluminum from 0.01 to 0.07 wt%, nitrogen equal to or less than 0.0030 wt% and boron satisfying an inequality of

$5 \text{ ppm} \leq B - 11/14 \times N \leq 30 \text{ ppm}$ and the residue including iron and unavoidable impurities, - Wherein a hot rolling finish is higher than point Ar₃, and said steel sheet is hot rolled at a coiling temperature of from 540 to 680 °C and cold rolled after pickling, and then said steel sheet is annealed in a continuous annealing step, wherein the annealing is conducted at a sheet temperature equal to or greater than 750 °C, a soaking period is from 60 to 120 seconds, hydrogen is present in the annealing gas in an amount of from 0 to 75% and the residue is nitrogen and a dew point is from -30 °C to 70 °C,

so as to control the amount of carbon to not more than 0.0008 wt%.

Claim 3 (Currently amended): A method for manufacturing shadow mask material made of a steel sheet characterized of comprising nitrogen equal to or less than 0.0030 wt%, boron satisfying an inequality of $5 \text{ ppm} \leq B - \frac{11}{14} \times N \leq 30 \text{ ppm}$ and the residue including iron and unavoidable impurities, wherein a hot rolling furnish is higher than a point Ar₃, said steel sheet is hot rolled at a coiling temperature from 540 to 680 °C and cold rolled after pickling and then said steel sheet is annealed in a continuous annealing step so as to control ~~a~~the content ratio of remained carbon remaining equal to or less than 0.0008 wt%.

Claim 4 (Currently amended): A method for manufacturing shadow mask material made of a steel sheet characterized of comprising carbon equal to or less than 0.0008 wt%, silicon equal to or less than 0.03 wt%, manganese from 0.1 to 0.5 wt%, phosphorus equal to or less than 0.02 wt%, sulfur equal to or less than 0.02 wt%, aluminum from 0.01 to 0.07 wt%, nitrogen equal to or less than 0.0030 wt% and boron satisfying an inequality of $5 \text{ ppm} \leq B - \frac{11}{14} \times N \leq 30 \text{ ppm}$ and the residue including iron and unavoidable impurities, wherein a hot rolling furnish is higher than a point Ar₃, said

steel sheet is hot rolled at a coiling temperature from 540 to 680 °C and cold rolled after pickling and then said steel sheet is annealed in a continuous annealing step so as to control a the content ratio of remained carbon remaining equal to or less than 0.0008 wt%.

Claim 5 (Canceled)

Claim 6 (Canceled)

Claim 7 (Currently amended): Shadow mask made et-of the material as claimed in claim 2.

Claim 8 (Canceled)

Claim 9 (Previously presented): A picture tube with said shadow mask as claimed in claim 7.

Claim 10 (New): Shadow mask material consisting essentially of iron and unavoidable impurities, carbon equal to or less than 0.0008 wt%, silicon equal to or less than 0.03 wt%, manganese from 0.1 to 0.5 wt%, phosphorus equal to or less than 0.02 wt%, sulfur equal to or less than 0.02 wt%, aluminum from 0.01 to 0.07 wt %, nitrogen equal to or less than 0.0030 wt %, and boron satisfying the inequality of 5 ppm $\leq B - 11/14 \times N \leq 30$ ppm

Claim 11 (New): A shadow mask made of the material as claimed in claim 10.

Claim 12 (New): A picture tube with said shadow
mask as claimed in claim 11.